

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	Hesung Innovation Limited	
	CS P/N		
	TEST MODEL	HPF020S	
	PART NAME	WIFI antenna assembly	
	FREQUENCY	2400~2500MHz	
	ZTX NO.	2.00001831	
	DATE	2025-08-14	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark:

Sign:

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
Youjie.Ke		Bo Hou.Jiang		



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ANTENNA SPECIFICATION

CUS P/N:HPF020S_WIFI antenna assembly

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Revision history

Edition	Date	state
A0	2025-08-14	First edition

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ANTENNA SPECIFICATION

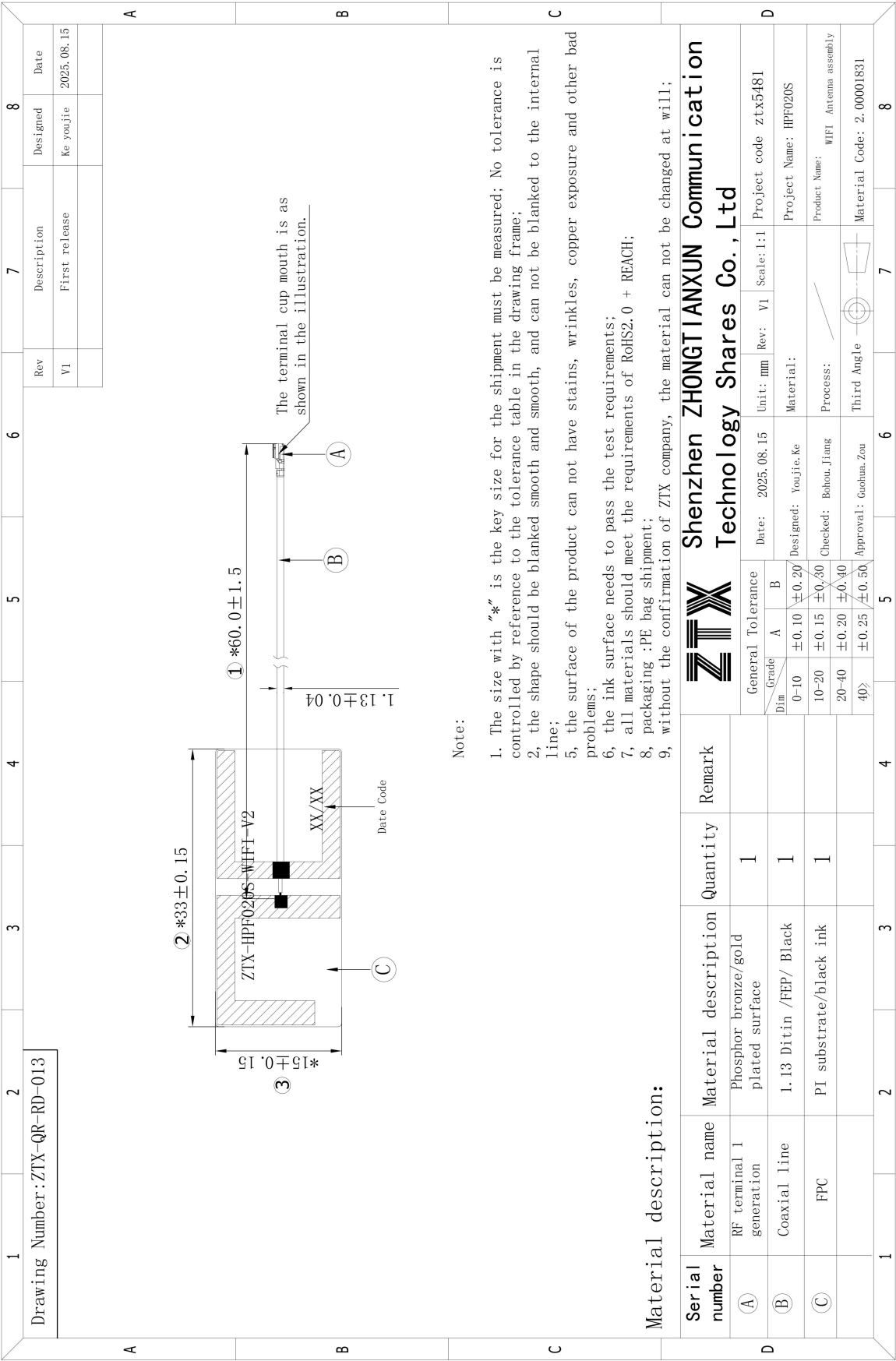
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1. Mechanical Specification

1-1 Mechanical Configuration (WIFI antenna assembly)



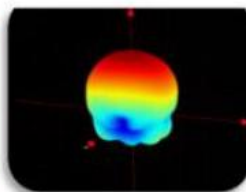
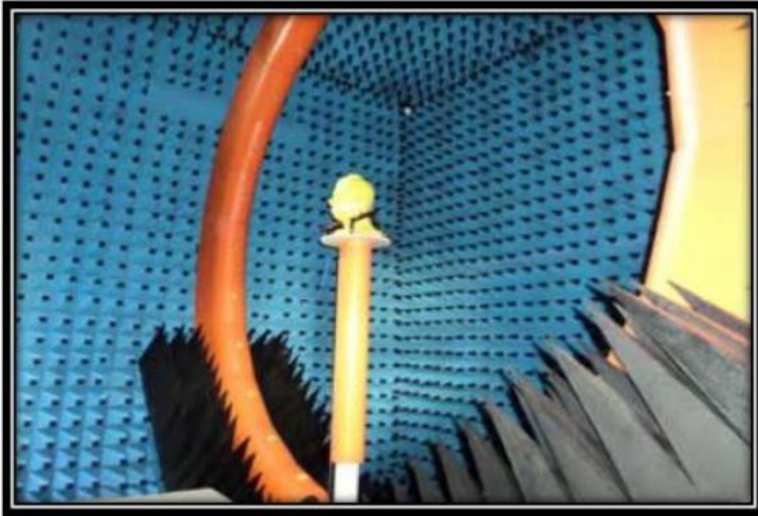
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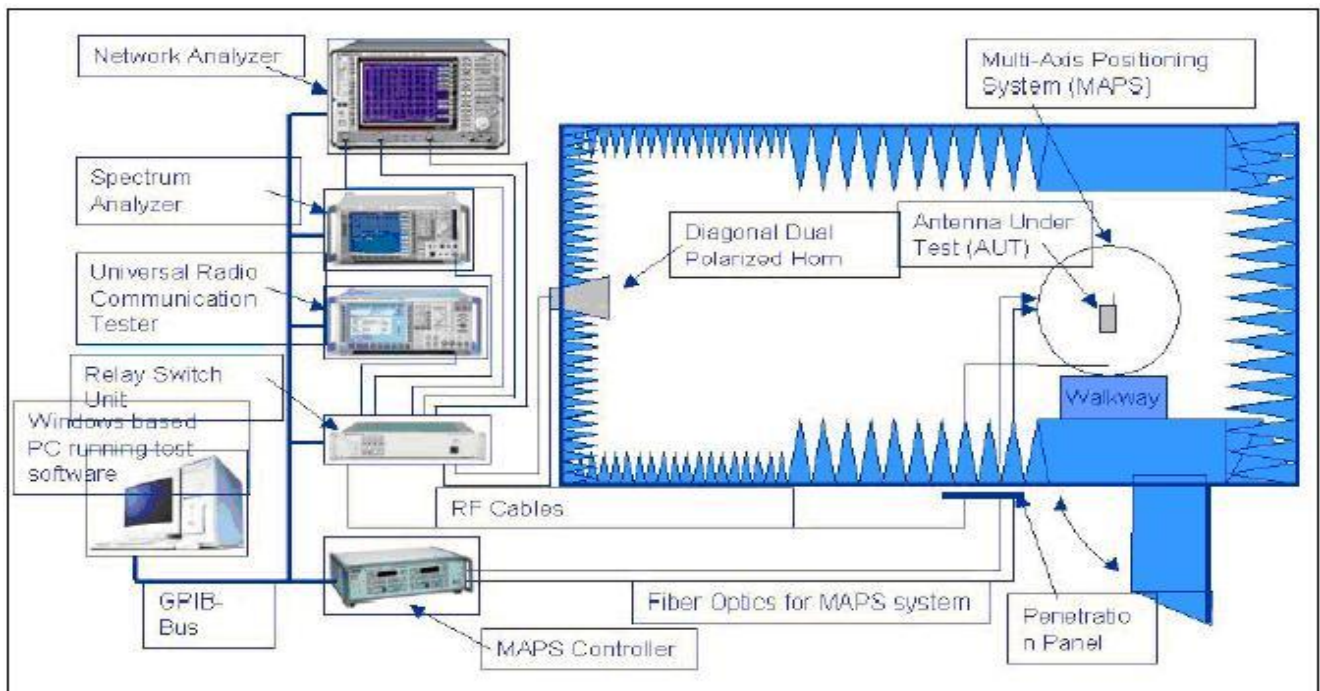
2. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of
GSM/CDMA/WCDMA/TD-
SCDMA/LTE/WIFI/WLAN/WiMax/BT
/GPS/MIMO/UWB within 0.4-6G.



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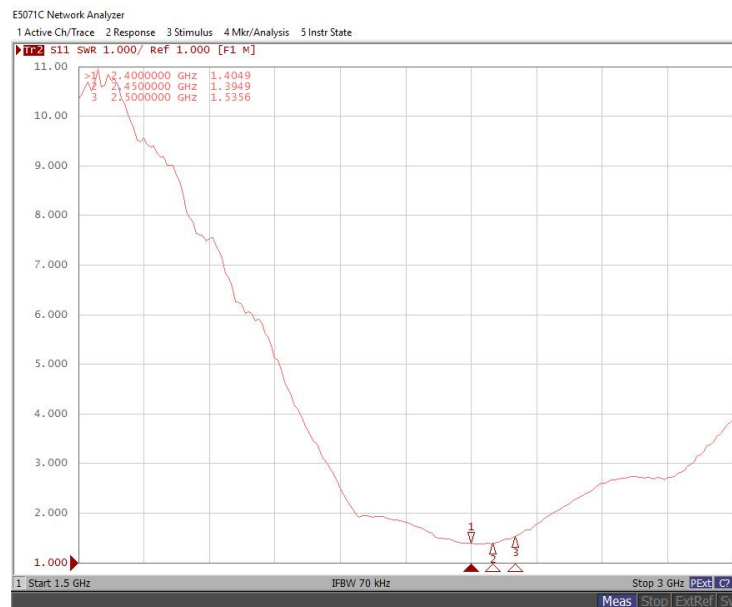
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3.Test Results Summary

3-1 Active Test

Mode	Channels	TRP	TIS
B (11M/11M)	1	17.04	-86.36
	6	17.31	-87.69
	11	17.88	-87.59
G (54M/54M)	1	14.25	-73.69
	6	14.62	-73.03
	11	15.12	-72.49
N (MCS7/MCS7)	1	14.55	-68.69
	6	14.84	-68.03
	11	15.11	-67.39

3-2 VSWR



3-3 Passive Test

Frequency	Efficiency	Gain . dB
2400MHz	67%	2.85
2410MHz	69%	2.62
2420MHz	70%	2.63
2430MHz	71%	2.59
2440MHz	72%	2.61
2450MHz	70%	2.88
2460MHz	71%	3.19
2470MHz	68%	3.08
2480MHz	69%	3.15
2490MHz	69%	3.00
2500MHz	68%	2.91

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3-4 2D/3D Radiation Pattern Results

